

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P950578

Luminaire Tested: **GALN-SB5A-727-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950578
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5A-727-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16063 lumens
Efficiency: N/A
Efficacy: 113.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

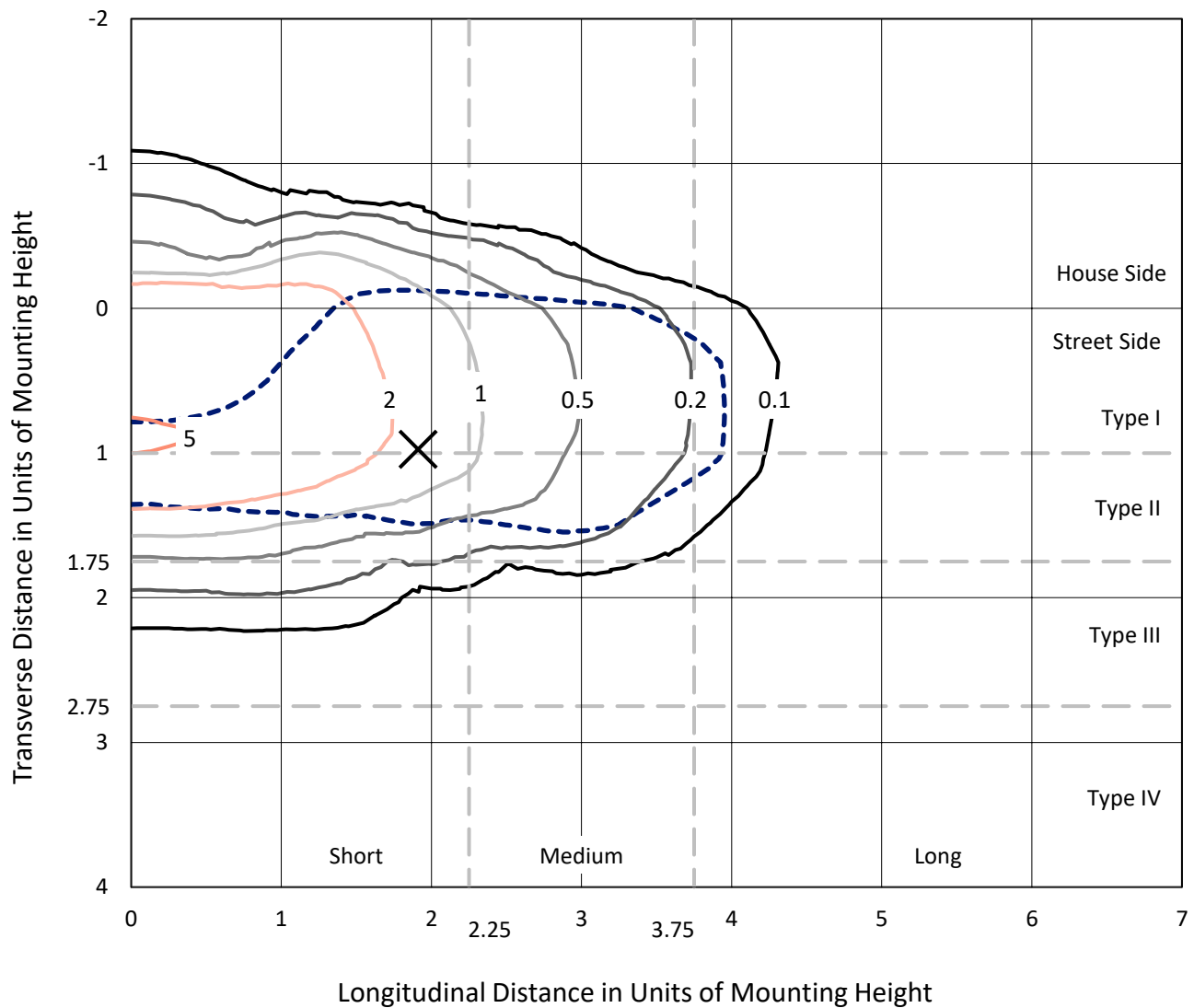


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Iso-Footcandle Lines of Horizontal Illumination

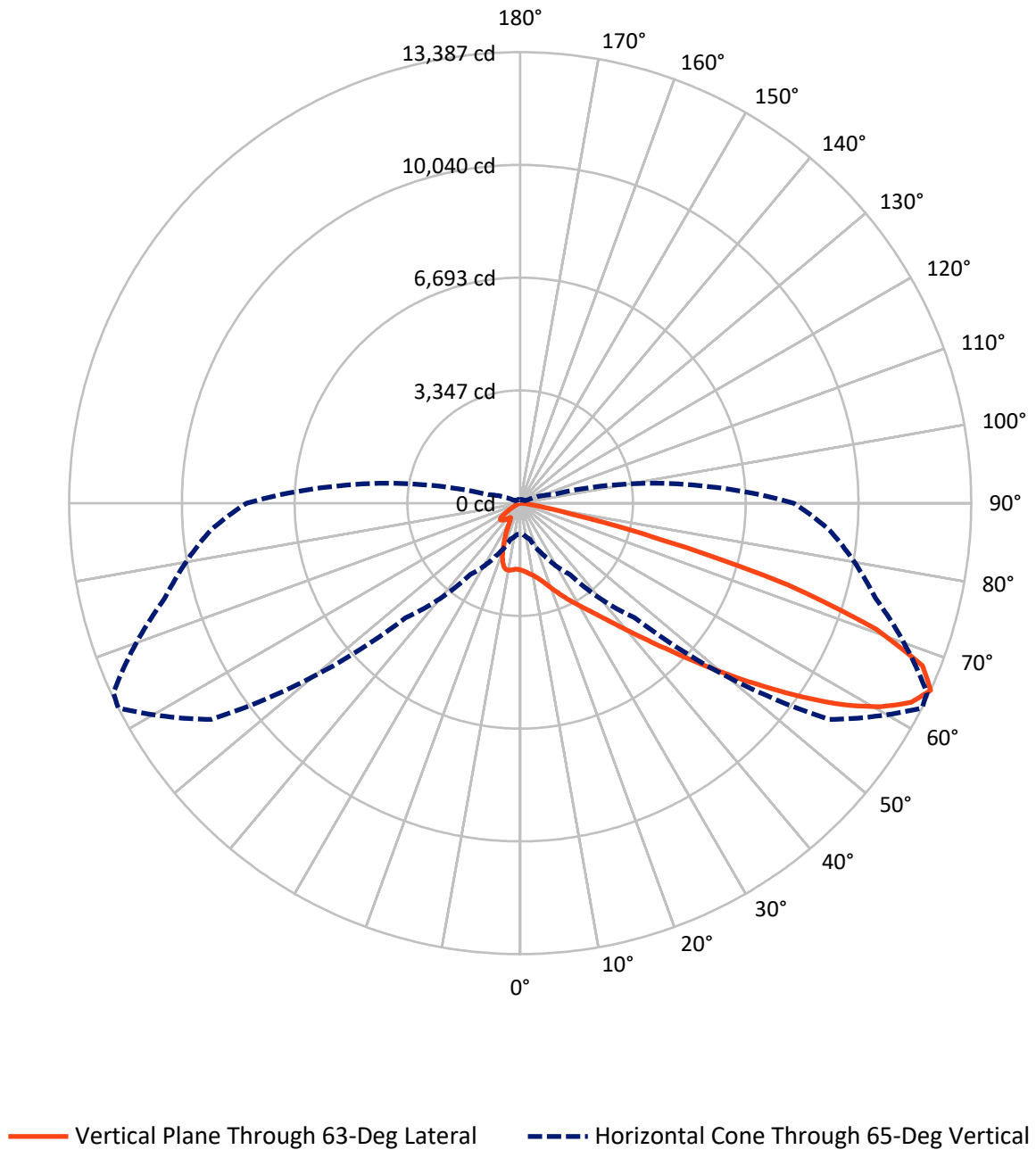
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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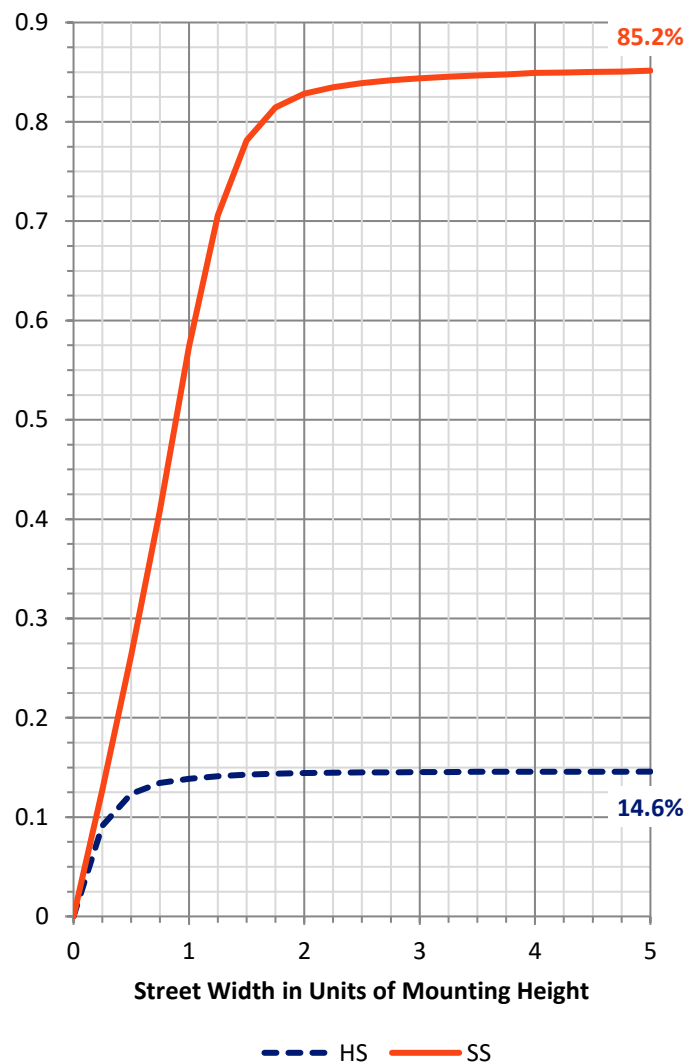
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2361.1	0.0	2361.1
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	13701.9	0.0	13701.9
	% Fixture	85.3	0.0	85.3
Total	Lumens	16063.0	0.0	16063.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.8	1.2
10°-20°	518.3	3.2
20°-30°	902.4	5.6
30°-40°	1626.5	10.1
40°-50°	3225.9	20.1
50°-60°	4394.3	27.4
60°-70°	3507.5	21.8
70°-80°	1587.2	9.9
80°-90°	114.1	0.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	16063.0	100.0
0°-180°	16063.0	100.0

Coefficient of Utilization



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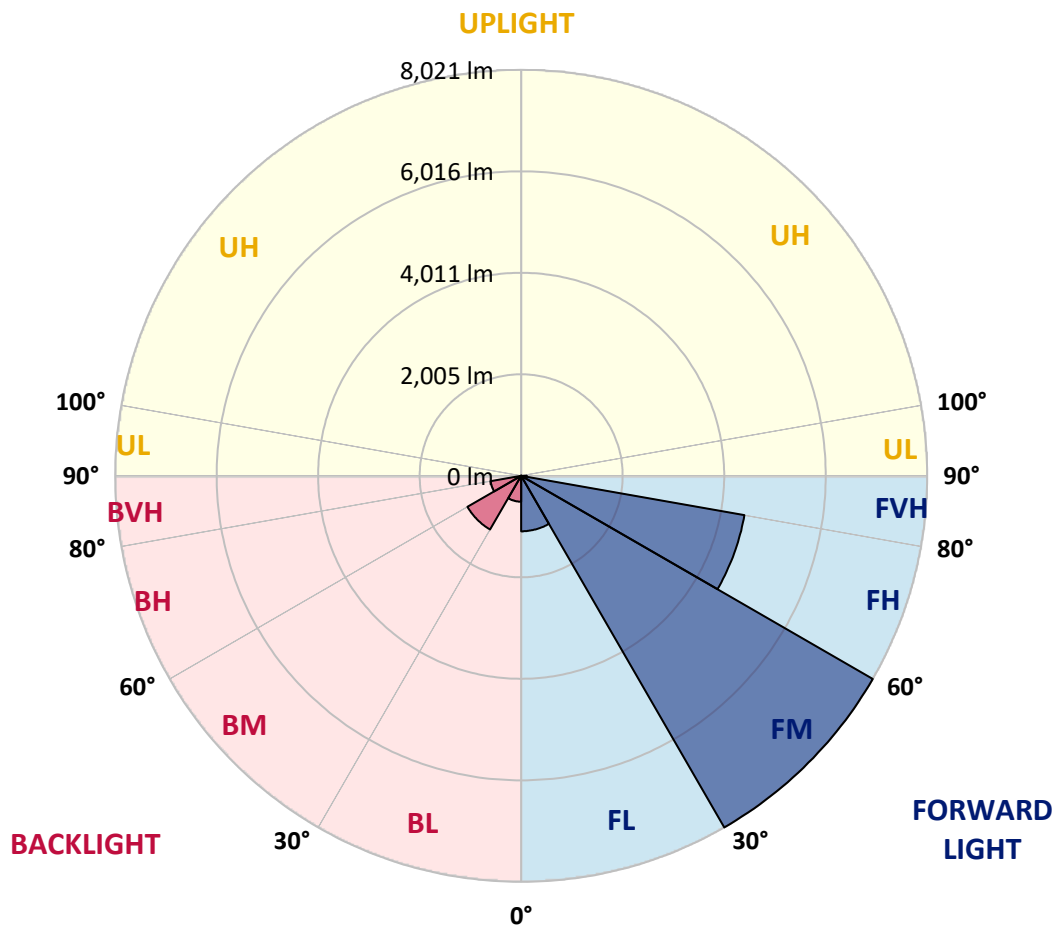
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1096.5	6.8			
FM	(30°-60°)	8021.5	49.9			
FH	(60°-80°)	4478.3	27.9			G2/5000
FVH	(80°-90°)	105.6	0.7			G2/225
BL	(0°-30°)	511.0	3.2	B2/1000		
BM	(30°-60°)	1225.3	7.6	B2/2500		
BH	(60°-80°)	616.4	3.8	B2/1000		G2/1000
BVH	(80°-90°)	8.5	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	1982.5	1982.5	1982.5	1982.5	1982.5	1982.5	1982.5	1982.5	1982.5	1982.5	1982.5
2.5°	2028.9	2023.4	2031.1	2027.8	2025.6	2021.2	2018.9	2016.7	2012.3	2009.0	1995.7
5°	2034.4	2031.1	2038.8	2045.5	2052.1	2058.7	2062.0	2066.5	2062.0	2053.2	2039.9
7.5°	1988.0	1985.8	2002.4	2022.3	2052.1	2077.5	2105.1	2120.6	2121.7	2118.4	2104.0
10°	1984.7	1979.2	1995.7	2020.0	2058.7	2104.0	2152.7	2185.8	2190.2	2204.6	2189.1
12.5°	2036.6	2031.1	2054.3	2080.8	2120.6	2168.1	2227.8	2274.2	2280.8	2300.7	2289.7
15°	2123.9	2116.2	2142.7	2177.0	2227.8	2281.9	2344.9	2386.9	2392.5	2416.8	2396.9
17.5°	2225.6	2217.9	2248.8	2285.3	2340.5	2414.6	2487.5	2533.9	2540.5	2556.0	2519.5
20°	2356.0	2346.0	2370.4	2403.5	2462.1	2550.5	2637.8	2704.1	2703.0	2703.0	2643.3
22.5°	2507.4	2491.9	2512.9	2539.4	2594.7	2701.9	2817.9	2896.4	2896.4	2865.4	2767.1
25°	2669.8	2654.4	2677.6	2701.9	2750.5	2872.1	3008.0	3105.2	3109.6	3056.6	2899.7
27.5°	2873.2	2853.3	2870.9	2899.7	2928.4	3052.2	3213.5	3326.2	3328.4	3246.7	3025.7
30°	3264.3	3208.0	3152.7	3121.8	3135.1	3257.7	3430.1	3555.0	3566.0	3453.3	3162.7
32.5°	3980.4	3969.4	3774.9	3520.7	3388.1	3478.7	3672.1	3822.4	3829.0	3684.3	3340.6
35°	5093.2	5080.0	4767.2	4283.2	3851.1	3774.9	3966.1	4144.0	4139.6	3976.0	3571.6
37.5°	6421.5	6409.3	5997.2	5349.6	4650.1	4222.4	4345.1	4531.9	4559.5	4345.1	3869.9
40°	7556.4	7511.1	7250.3	6625.9	5711.0	4965.0	4884.4	5008.1	5036.9	4782.7	4249.0
42.5°	8416.1	8377.5	8244.9	7854.8	6995.0	6063.5	5519.8	5567.3	5599.3	5294.3	4684.3
45°	8861.5	8852.6	8905.7	8869.2	8303.4	7411.6	6428.1	6230.3	6242.5	5861.2	5178.3
47.5°	8924.5	8920.0	9162.1	9504.6	9428.4	8932.2	7594.0	7056.9	7013.8	6501.1	5715.4
50°	8553.2	8544.3	9008.4	9650.5	10179.8	10209.6	8917.8	7988.5	7893.4	7163.0	6275.6
52.5°	7367.4	7365.2	8127.7	9196.3	10443.9	11328.0	10226.2	9011.8	8852.6	7863.6	6867.9
55°	5669.0	5709.8	6583.9	7847.0	9962.1	11866.1	11400.9	10147.8	9903.5	8568.6	7413.8
57.5°	4015.8	4075.5	4939.6	6064.6	8468.1	11547.9	12195.4	11286.0	11023.0	9271.5	7967.5
60°	2157.1	2210.1	3075.4	4418.0	6299.9	10361.0	12614.3	12273.9	12025.3	9938.9	8467.0
62.5°	1285.2	1302.9	1660.9	2852.2	4261.1	7915.5	12436.3	13026.4	12822.0	10499.2	8901.3
65°	922.7	926.0	1106.2	1741.6	2586.9	4809.2	11188.7	13386.7	13323.7	10921.3	9222.8
67.5°	776.9	774.6	849.8	1157.0	1762.6	2409.0	8575.3	12877.3	13144.7	11188.7	9405.2
70°	666.4	669.7	758.1	847.6	1325.0	1363.6	4263.3	11211.9	11782.2	11259.5	9394.1
72.5°	496.2	507.2	589.0	772.4	1000.1	938.2	1471.9	8313.4	9344.4	10608.6	8906.8
75°	350.3	355.8	414.4	649.8	745.9	682.9	751.4	4297.6	5619.2	8133.2	7290.1
77.5°	269.6	279.6	313.8	454.2	734.9	479.6	459.7	1487.4	2285.3	4913.1	4998.2
80°	145.9	163.5	226.5	328.2	516.1	339.3	227.6	592.3	774.6	2297.4	1927.2
82.5°	75.1	84.0	158.0	236.5	293.9	296.2	112.7	246.4	319.4	709.4	264.1
85°	29.8	36.5	106.1	130.4	151.4	145.9	50.8	99.5	114.9	196.7	80.7
87.5°	6.6	11.1	38.7	29.8	28.7	30.9	12.2	23.2	22.1	23.2	14.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1982.5	1982.5	1982.5	1982.5	1982.5	1982.5	1982.5	1982.5	1982.5	1982.5	1982.5
2.5°	1994.6	1990.2	1978.1	1964.8	1949.3	1940.5	1935.0	1933.9	1926.1	1920.6	1926.1
5°	2027.8	2023.4	2000.2	1972.5	1942.7	1919.5	1897.4	1877.5	1848.8	1843.2	1841.0
7.5°	2094.1	2081.9	2044.4	2006.8	1950.4	1883.0	1801.2	1707.3	1623.3	1597.9	1585.8
10°	2175.9	2159.3	2111.8	2045.5	1920.6	1737.2	1539.3	1355.9	1210.0	1169.2	1153.7
12.5°	2268.7	2254.3	2191.3	2068.7	1795.7	1463.1	1160.3	932.7	791.2	755.9	745.9
15°	2379.2	2358.2	2270.9	2033.3	1572.5	1111.7	796.7	661.9	611.1	604.5	597.8
17.5°	2496.3	2462.1	2341.6	1906.2	1271.9	790.1	615.5	576.8	554.7	548.1	544.8
20°	2603.5	2559.3	2383.6	1713.9	950.4	615.5	551.4	526.0	506.1	498.4	494.0
22.5°	2710.7	2647.7	2383.6	1452.0	712.8	545.9	506.1	482.9	459.7	449.8	444.2
25°	2822.3	2738.3	2341.6	1160.3	573.5	500.6	463.0	437.6	417.7	405.6	401.1
27.5°	2930.6	2814.6	2245.5	884.0	510.5	460.8	423.2	398.9	380.1	371.3	371.3
30°	3033.4	2889.7	2110.7	670.8	469.7	422.1	386.8	365.8	347.0	338.1	339.3
32.5°	3172.6	2984.8	1967.0	550.3	434.3	385.7	353.6	333.7	317.2	310.5	310.5
35°	3366.0	3125.1	1843.2	540.4	404.5	355.8	323.8	305.0	288.4	282.9	282.9
37.5°	3640.1	3351.6	1778.0	606.7	380.1	329.3	299.5	279.6	264.1	259.7	258.6
40°	3978.2	3658.9	1813.4	673.0	363.6	306.1	277.4	257.5	244.2	238.7	237.6
42.5°	4379.4	4037.9	2009.0	723.8	352.5	286.2	256.4	234.3	225.4	223.2	223.2
45°	4840.2	4454.5	2308.5	778.0	334.8	267.4	235.4	218.8	212.2	211.1	210.0
47.5°	5364.0	4912.0	2655.5	845.4	317.2	249.7	218.8	207.8	202.2	200.0	200.0
50°	5883.3	5372.8	3012.4	882.9	302.8	233.2	205.5	196.7	192.3	191.2	191.2
52.5°	6427.0	5846.9	3300.8	847.6	290.6	219.9	194.5	187.9	183.4	182.3	182.3
55°	6945.3	6230.3	3350.5	719.4	266.3	206.6	182.3	179.0	173.5	173.5	172.4
57.5°	7391.7	6422.6	2999.1	528.2	242.0	186.8	170.2	166.9	162.4	161.3	160.2
60°	7801.7	6367.4	2315.1	355.8	215.5	166.9	154.7	152.5	148.1	142.6	141.4
62.5°	8032.7	6124.2	1583.6	232.1	189.0	145.9	137.0	135.9	126.0	114.9	112.7
65°	8120.0	5624.8	987.9	169.1	158.0	124.9	118.2	116.0	101.7	89.5	88.4
67.5°	8043.7	4802.6	498.4	133.7	124.9	103.9	97.2	97.2	87.3	76.2	75.1
70°	7738.7	3600.3	210.0	107.2	96.1	79.6	79.6	84.0	74.0	61.9	60.8
72.5°	7076.8	2422.3	111.6	81.8	71.8	56.4	65.2	68.5	58.6	46.4	46.4
75°	5625.9	1477.5	77.4	60.8	45.3	39.8	49.7	51.9	39.8	30.9	29.8
77.5°	3847.8	848.7	51.9	38.7	28.7	23.2	34.3	32.0	21.0	14.4	15.5
80°	1689.6	353.6	29.8	17.7	11.1	8.8	12.2	8.8	6.6	4.4	4.4
82.5°	197.8	82.9	11.1	6.6	4.4	2.2	1.1	0.0	0.0	0.0	0.0
85°	40.9	9.9	5.5	2.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.7	2.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)